

8 August 2010 – Ocean Veritas Status Report - Cruise 13 - Day 2
Complied by: Don Aurand, Ecosystem Management and Associates (for BP)

The plan for sampling today was to run a north to south sample transect across the ASA SIMOP predicted path of the plume¹ in the August 6 model update². The transect was started 0.5 miles north of OV161 (28° 18.1', 89° 10.5') at OV163. We then moved one mile due south (OV164), followed by a move five miles further due south to OV164. None of these stations had any indication of the dispersed oil plume. We then turned to the southeast (bearing 135 degrees) and moved 12 miles to OV165, followed by another 12 mile move along the same bearing to OV166. These two stations were slightly further from the wellhead than previous stations which had a DO signal, but are in the same general area.

The weather today was sunny, sea states were 1 to 3 feet of light chop, winds around 8 to 10 kts. Daytime high temperatures were in the low to mid 90s with higher humidity than yesterday.

There was no fluorometric signal at any of the five stations, sampled between 0630 and 1930 local time. However, there was a dissolved oxygen response at the last two stations, OV166 and OV167, which were to the southeast of the predicted plume (see Figure 1).

No indications of oil or dispersant were found with the LISST particle analyzer or the fluorescence intensity ratios.

Station	Position from Wellhead	Fluorescence Signal	Signal Depth	Comment
OV163	92 km WSW	No Signal	-	No fluorometric signal and no reduction in dissolved oxygen.
OV164	94 km WSW	No Signal	-	No fluorometric signal and no reduction in dissolved oxygen.
OV165	97 km WSW	No Signal	-	No fluorometric signal and no reduction in dissolved oxygen.
OV166	95 km SW	No Signal	-	No fluorometric signal but a reduction in DO from 1159 to 1186 m (approximately 0.5 mg/L reduction).
OV167	97 km SSW	No Signal	-	No fluorometric signal, but a weak (< 0.25 mg/L) but broad DO dip from 1030 to 1261 m.

Today's data suggests that the residual plume may be further to the south than predicted by the ASA model, based on the distribution of DO values.

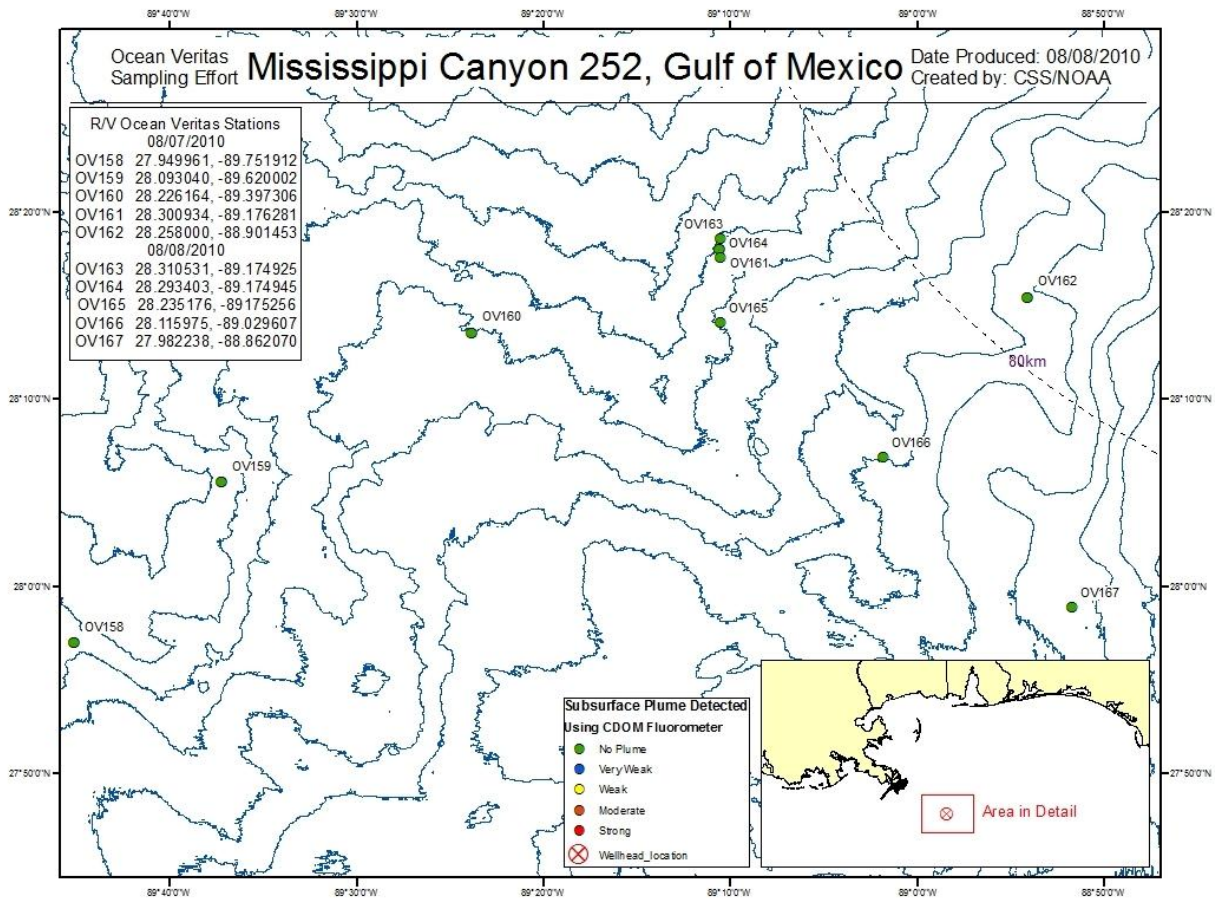
Samples for Rotoxkit M analysis collected yesterday from stations OV158 through OV162 were analyzed today and there was no significant mortality in any sample. In fact, survival was quite high and almost no mortality was observed. Samples were collected today from stations OV164 through OV167 and results will be available tomorrow.

¹ Oil Plume: Concentration of hydrocarbons (above background) detected in the water column via fluorometry and LISST particle analysis that appears to be part of a larger pattern of dissolved oil, naturally dispersed oil and/or chemically dispersed oil.

² The August 7 update was not available in time to use it in planning the transect.

No air quality monitoring was conducted since CTEH recalled their sampling technician prior to departure yesterday.

Figure 1. Station Locations for 8 August 2010.



Staffing, R/V Ocean Veritas, Cruise 13 August 7-9, 2010		
Name	Affiliation	Role
Scientific Staff		
Don Aurand	EM&A	Chief Scientist
Michelle Kenny	DFO	Particle Analysis
Jay Bugden	DFO	Particle Analysis
Tim Mayer	EM&A	Toxicology
Kyle Freeman	Entrix	Sampling Technician
Mark Deuger	Entrix	Sampling Technician
Michelle Stogner	NOAA/CSS	Data Management
Dan Pisegna	Fugro	Party Chief Oceanography
Ward Bekins	Fugro	Oceanography Team
Hannuman Bull	Fugro	Oceanography Team
Clay Harbich	Fugro	Oceanography Team
Mike Guzman	Fugro Chance	Navigation
Manuel Schmaidick	EPA	Observer
Ship's Company		
Perry Rosenthal	Master	
Guy Piercey	Second Captain	
Eric Houtary	Chief Mate	
Bud Hanson	Second Mate	
Doug Brock	Chief Engineer	
Lorenzo Cristano	QMED-1	
Mohammed Nartay	QMED-2	
Tim Pitarys	AB-1	
Nate Compton	AB-2	
Jose Valentine	AB-3	
Dakota Russel	Ordinary	
Aaron Lanet	Cook	
Albert Massaru	Assistant Cook	